

# FOLIO

UNIVERSITY  
OF ALBERTA

EDMONTON

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## Federal cuts to transfer payments won't be passed on to universities — Dinning

*Ady says no changes will be made to tuition policy*

By Michael Robb

For months, administrators in the province's universities and colleges have been wondering whether federal cuts to provincial transfer payments would result in additional funding cuts in their budgets.

Last week, they were relieved to learn that the province has no plans to do that. "This will give assurance to regional health authorities, universities and colleges as they prepare their budgets and business plans," said Provincial Treasurer Jim Dinning. "They can do so without the uncertainty caused by a hit from Ottawa's deficit cutting efforts."

Dinning said the provincial government could make the commitment because of its strong fiscal position. "Without it, we could not give this assurance to health and education institutions. Just ask those who work in these sectors in other provinces. They are getting no such assurances."

"It's important that we protect our priority programs from Ottawa's spending cuts."

According to the Minister of Advanced Education and Career Development, Jack Ady, there will be no reductions in grants to postsecondary institutions beyond those announced in the 1995-98 business plan, assuming there are no further changes to the federal government's Canada Health and Social Transfer.

Ady made the announcement at a Minister's forum on adult learning held last week held in Edmonton. "I hope that other education systems across the country will be able to absorb the [federal transfer] reductions in the same manner, but I suspect Alberta will be in a minority."

Student leaders applauded the decision. Students' Union President Garrett Poston called the decision "good for students, good for postsecondary education and good for the province." He said postsecondary institutions will now be able to adjust to the last round of cuts and then be able to focus on providing quality education to Albertans.

SU Vice-President (External) Matthew Hough was more reserved in his response. Hough, a board member of the Canadian Alliance of Student Associations, said he's withholding judgment until the federal government releases more details on the Canada Health and Social Transfer. "The federal government is still in control. If it decides to allocate the cuts to the provinces based on need rather than per capita, then we are playing a whole new ball game."

The future of the federal role in funding postsecondary education remains a



### A tre(e)mendous tradition

Marj McMullen, left, Michelle Green and Maureen Winchester, right, add gifts to the Christmas tree in the Registrar's Office. Continuing a practice started last year, the 84-member staff decorates the tree with new and like-new items of winter clothing which are later donated to a chosen charity (this year it's WIN House). At the same time, presents under the tree will go to Santa's Anonymous and there will be a donation to the Food Bank.

topic of intense discussion, however. *Globe and Mail* columnist Jeffrey Simpson wrote in the 29 November issue that there is a debate going on among members of the federal unity committee, the majority of whom want the federal government to stop funding postsecondary education, except for research. Wrote Simpson, "The more traditional Liberals, many of whom are post-referendum minimalists, are aghast at the prospect of Ottawa abandoning postsecondary education and welfare."

According to Ady, the federal government's transfer payments will be significantly reduced. "By replacing the current transfers, the Canada Assistance Plan and

the Established Programs Financing, with the new CHST, cash transfers to Alberta will drop from \$1.5 billion in 1995-96 to less than \$1 billion in 1997-98.

"If you apply this reduction to the EPF cash currently assigned by the federal government to postsecondary education, the transfer under the CHST would drop from \$250 million in 1995-96 to \$165 million in 1997-98," the Minister told the forum's participants.

The Minister said that by his rough calculations, if the cut was passed on to the institutions, it would result in about a 10 to 12 percent cut over two years, "something our system could not with-

## Butterdome home of buys, bargains and bytes

By Folio staff

As garage sales go, this could be THE BIG ONE.

In support of the United Way, the University of Alberta is holding a "garage sale and gigantic computer equipment auction". The two-day event takes place today (1-7 pm) and Saturday (10 am to 4 pm) in the "warm and toasty" Butterdome.

People are urged to donate items to the general United Way Table, with proceeds going to the United Way. Another course of action is to rent a table for \$20 and sell your items for as much as you can get.

A silent auction of computer equipment will begin shortly after lunch on Saturday.

A garage sale hotline was been set up; the number is 492-1001.

The garage sale and auction, the first of its kind, is sponsored by Quality Color Press, W.B. Environment Group Ltd, Krawford Construction, AGT, ED TEL, Edmonton Power, Field & Field Perraton Barristers & Solicitors, and 630 CHED, which, incidentally will do a live remote broadcast from 1 to 5 on Saturday. ■

stand." The Minister also stated there would be no changes to the tuition policy and no cuts to the student assistance budget.

In a rare show of support, the SU president commended Ady for his efforts in promoting the importance of postsecondary education among his colleagues in government. Constructive student lobbying also paid off, Poston said. "Students have been fighting for this since the federal government announced its intentions last February. This is a successful outcome to an intense lobby effort. Students will be ecstatic." ■

# SEASON'S GREETINGS



# Tom Noseworthy new head of Public Health Sciences

## New MPH degree first in Canada

By Judy Goldsand

His biggest challenge, says Tom Noseworthy, who was appointed five weeks ago as Chair of Public Health Sciences, is to develop the new degree program of Master of Public Health (MPH), get it marketed to attract the best students and be ready to move in new directions in September 1996. The Department of Public Health Sciences and the new MPH degree are firsts in Canada, says Dr Noseworthy, although they are more prevalent in the United States.

"I see this department as bringing together scholarly activity and teaching and research around some very practical areas," says the new Chair. Public Health Sciences is an amalgamation of the social and behavioural sciences of health and health care, and includes environmental health, occupational health, epidemiology and biostatistics, community health and health policy management.



Tom Noseworthy, recently appointed Chair of the new Department of Public Health Sciences, also chairs the steering committee of Canada's National Forum on Health.

What the healthcare field needs in terms of graduates has changed, says Dr Noseworthy. The former Master's degree in Health Services Administration was usually qualification for a senior management position in hospitals, but today that would be an unreasonable expectation, he explains. "The newly contrived program is somewhat comparable to the previous MHA degree but we are seeking to make it more broad-based.

"Graduates of the new program should have a wide array of employment opportunities," says Dr Noseworthy. "They might work in healthcare administration, management or evaluative research with governmental bodies or in places like the pharmaceutical industry or health manufacturing industries. In the USA, this degree prepares people for jobs in areas such as third party paying agencies, insurance agencies, actuarial firms, private or public health businesses, or governmental and nongovernmental health organizations."

There are two streams to the new degree, a course-based MPH with specialization in Health Policy and Management, or a thesis-based MPH with specialization in Health Policy Research. The course is 20 months, with a field placement between the first and second year of the course-based program. The department hopes to attract students who have some experience in the health field, such as nursing, pharmacy, rehabilitation medicine or medicine. They are trying to be flexible in tailoring the program to meet the needs of people wishing to combine work and study.

Dr Noseworthy notes that the MPH degree has quite a different orientation from the Faculty of Business MBA degree with a health stream major, but the Faculties will collaborate in using some of each other's courses.

Previous MSc degrees in Epidemiology and in Environmental Health will continue to be offered through the new department.

A native of Newfoundland and a graduate of Memorial University Medical School, Dr Noseworthy has worked as a rural general practitioner, an internist and practising critical care physician. From 1989 to 1992, he was vice-president of medical services at the Royal Alexandra Hospital, and from 1993 to 1995, served as the RAH president and CEO. He holds an MSc in Experimental Medicine from the U of A (1985) and an MPH in Health Policy and Management from Harvard University (1987).

In October 1994, Dr Noseworthy was appointed to the Prime Minister's National Forum on Health, where, in addition to serving on two committees, he chairs the steering committee. ■

### MEMORIAL SERVICE FOR WINNIE TOMM, 11 DECEMBER

Professor Winnie Tomm of Women's Studies died peacefully 29 November after a courageous struggle with cancer.

Winnie's students, colleagues and friends are invited to celebrate her life and mourn her passing at a memorial service to be held 11 December at noon in the Heritage Lounge of Athabasca Hall.

## FOLIO

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Public Affairs produces *Folio* on a regular basis for employees and volunteers at the University of Alberta.

*Folio's* mandate is to serve as a credible news source for internal audiences by communicating accurate and timely information about issues, programs, people and events.

#### DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. Classified advertisements: 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 40 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Call 465-3307 for sizes, rates and other particulars.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be printed with acknowledgment.

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University  
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## Education paramount in dealing with Montreal massacre issues

By Alison Dulaney

On 6 December 1989, Canada was shocked by the news that 14 women had been gunned down at Ecole Polytechnique in Montreal. That day Marc Lepine had decided to exact revenge on both women and the school. Armed with a semi-automatic rifle, he entered the school and went to an engineering classroom where he ordered all the male students to leave. Lepine shouted "You're all a bunch of feminists and I hate feminists" and then opened fire on the women. He proceeded to the cafeteria where he continued shooting before turning the gun on himself.

Police later reported that Lepine's suicide note included a list of 19 prominent Quebec feminists targeted to be killed. Lepine had also wanted to enter the engineering program at Ecole Polytechnique and had been refused. Lepine's personal history includes anti-social behaviour and physical abuse as a child.

Last Wednesday, a half-hour memorial service was held in the Business Building Atrium for the 14 women, their families, and their peers. The memorial was for everyone because the issues that surround this tragic event affect all of us.

Some of the issues that can be looked at are: gender violence, segregation of gender (both for women and men), and overall campus safety with the risk of an insular campus society. Each person will have their own view; there is no one definitive answer.

The one combatant for so many difficult issues is education. ■

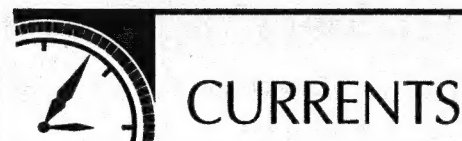
Alison Dulaney is a second year Arts (Sociology) student.

## See you in January

This issue of *Folio* is the last one of 1995.

*Folio* will next publish 12 January 1996; the deadline date for that issue is Friday, 5 January (9 am for notice of talks and events, 3 pm for classified and display advertising).

*Folio* wishes everyone a safe and happy holiday season and a year of surpassing achievement.



### Friday food drive invites nonperishable food items

The Arts Students' Association charity committee is holding a Friday food drive to benefit the University of Alberta Food Bank. Donation boxes are located on each floor of the Tory Building and the Humanities Centre, and pickups will be made each Friday. The drive will be held year round, with all proceeds going to the campus Food Bank.

### Arts Teaching Awards

Nominations are invited for Faculty of Arts Teaching Awards in three categories: Faculty Undergraduate Teaching Awards (deadline: 15 January), Sessional Instructor Teaching Awards (deadline: 1 March) and Graduate Student Teaching Awards (deadline: 1 March). Nominations can be made by students, colleagues and/or Department Chairs. Interested persons should discuss possible nominations with the appropriate Department Chair well in advance of the deadline.

## University meeting with city councillors

By Folio staff

Associate Vice-President (Government Affairs) Allan Tupper, Students' Union President Garrett Poston and Graduate Students' Association President Jay Krushell are wrapping up a series of meetings with city councillors.

The meetings, held in councillors' offices, average about 40 minutes and consist of introductions, the conveying of both parties' wish to build new relationships and strengthen others, and an exchange of information, for example the University representatives make sure councillors have copies of the "Research Works" and "Indisputably Recognized" brochures.

Dr Tupper and the student leaders are stressing that the University is one of Edmonton's most important resources. We've heard the spectrum of opinions, many of which relate to the quality of education, Dr Tupper says.

Councillors are very receptive to these meetings, Krushell says, pointing out that a number of councillors are U of A graduates.

The possibility of resurrecting the University Liaison Committee after some seven years of inactivity is being discussed.

On 4 January, councillors will attend a reception and dinner at the Faculty Club. The evening will be hosted by the Board of Governors. ■

## Milner, Winspear inducted into the Order of Excellence

By Folio staff

Stan Milner and Francis Winspear have been accorded the province's highest recognition—induction into the Alberta Order of Excellence.

Dr Milner, president of Chieftain International and a leading developer of the province's petroleum industry, and Dr Winspear, a philanthropist who is equally at home in arts and business settings, were presented the honour by Lieutenant Governor Gordon Towers at a formal ceremony at Government House, 23 November.

Continued on page 6



# Engineering students pitch in to create fund for Faculty

**\$25/term will be used to upgrade lab equipment**

By Michael Robb

Engineering students overwhelmingly voted in favour late last month of paying \$25 a term—\$50 a year—to establish an engineering undergraduate equipment fund. The money will be used to upgrade Faculty of Engineering undergraduate labs.

About 85 percent of the 1,001 students who voted agreed to establish the fund. The fund will likely generate about \$120,000 a year, from about 2,400 students.

"The idea really sold itself; it made such sense," said Engineering Students' Society Vice-President (Academic) Prudence Hoffman, who was one of the organizers of the referendum.

Engineering Dean David Lynch said, "It certainly demonstrates the students' initiative and commitment to protect and enhance the quality of their degrees."

The fund will be managed by student and faculty representatives from each of the six engineering disciplines. Students

will retain the final say over how and where the money will be spent. Those decisions will be based on need, says Hoffman. Proposals will be submitted to the committee administering the money. And business and alumni will be encouraged to contribute to the fund.

The organizers say the money isn't a complete solution to the problem of aging labs. It's meant to enhance what is already being done, says Hoffman, adding that there are some labs, built and equipped during the 1970s, that are in desperate need of upgrading.

Dr Lynch says engineering is an applied science and the lab experience is an essential element of a good engineering education. All departments are challenged to continue upgrading their labs with the latest equipment by the rapid technological changes occurring every day, he points out. Moreover, students in the cooperative education program, who see the latest

equipment in the workplace, return to the classroom and expect no less.

"The technology becomes obsolete very quickly," the Dean points out.

The money will be tax deductible, and officials in the Faculty and Registrar's Office are working out the administrative details. The fee will be part of the normal fee schedule. Other Faculties are also interested in the concept. Certainly, the idea is not new. In fact, many other engineering schools have similar student-supported funds.

Dean Lynch is hopeful the initiative will establish a history of support for the Faculty. The students certainly recognized the needs and, as graduates, they will likely realize that the value of their degrees is dependent on sustaining the quality of the education in the future, he says. ■

# Christmas break means few buildings will be open

By Kevin Moodie

The Department of Physical Plant advises the University community that most on-campus facilities will close at 4:30 pm Friday, 22 December, and reopen at 8 am Tuesday, 2 January.

As was the case last year, if any unit is planning to be open at all during this period, arrangements must be made with Physical Plant as soon as possible.

These facilities are scheduled to be open:

- Clinical Sciences Building (U of A Hospitals operations only)
- University Extension Centre (commercial units only)
- HUB Mall (some commercial outlets)
- University Health Services (28 and 29 December)
- Clare Drake Arena (hockey tournaments)
- Athabasca Hall (Fund Development Offices)
- Housing and Food Services (residences and Lister Hall)
- Tennis Centre (Michener Park Location)

University of Alberta staff and students who have keys may still enter the buildings to do work. There will be power in all the outlets and lights can be switched on in individual offices. The heating systems will remain in operation, but the ventilation systems will be working at a reduced capacity. Cleaning staff will not be working in any of the closed facilities.

As limited cleaning services will be available 22 December, Physical Plant asks staff to take any waste in their area to a central collection point, such as a general office or the washrooms. Staff should also arrange to look after their plants as only those flowers and plants in public areas will be watered.

Physical Plant and Campus Security Services will maintain their 24-hour emergency services, and Physical Plant will continue to monitor facilities for emergencies, equipment failure, water leaks, etc, and will respond to major snowfalls to ensure that campus access is maintained.

Building occupants are asked to do what they can to prevent potential problems and to minimize energy costs. This includes turning off all lights and equipment, and firmly closing all exterior windows. Please review your department's emergency call-back procedures in the event you are called.

All departments and researchers whose equipment is monitored by Physical Plant are asked to be certain that their call-back lists contain the most current information and that they have forwarded all changes to the Physical Plant Communications Control Centre.

Any questions/concerns on the Christmas closure of facilities can be raised by calling 492-4210. ■

Kevin Moodie is Associate Director, Building Operations.

# (Asia) mission accomplished

**President visits four countries, 'sells' U of A throughout tour**

By Ron Thomas

*"Within three years, the Pacific Rim countries will consume more goods and services than the rest of the world combined. We've got to be there."*

— Chancellor Lou Hyndman

At the University of Alberta, it wasn't that long ago that the word "competition" was limited to the playing fields, and "All the world's a stage" was heard only at Studio Theatre. Presidents did some travelling, but largely across town and, on occasion, North America.

Nowadays, while President Rod Fraser frequently crosses the North Saskatchewan River, he also crosses international datelines.

Between 14 October and 9 November, Dr Fraser was an advance man/salesman/opportunity explorer in Korea (six days), the People's Republic of China (14 days), Hong Kong (six days), and Taiwan (five days).

Throughout his trip, as was the case during an earlier visit to East Asia, Dr Fraser spoke at length and from all angles about the University's ongoing interest in:

- recruiting outstanding students;
- building exchange agreements with other universities;
- strengthening the alumni base
- making contact with key benefactors and potential benefactors; and
- exploring the possibility of joint ventures with other universities, government, and private sector institutions.

In East Asia there's an "onslaught" of delegations from leading universities in the U.S., Canada, Australia and Japan, Dr Fraser says, adding that he knows of at least one East Asian university whose vice-president's main responsibility is to schedule tours for visitors.

"It's an enormously competitive world that's evolving over there, and because the opportunities are so numerous, one has to be super selective." Dr Fraser recently told the University Board of Governors that, "We've got to create a model that demonstrates clearly that coming to the U of A makes more sense than going to the University of Arizona or Boston College."

In East Asia in general and in South China in particular, the ability of people to send their children to university abroad has grown remarkably, he says.



Dr Fraser met for the second time with Dr Po-Ya Chang, Director-General, Department of Health, Taiwan R.O.C. His first meeting was in Taiwan last May. They discussed the possibility of the University of Alberta offering short courses to Taiwan health professionals in areas such as health information systems, health promotion, hospital administration, and long-term and geriatric health care.

Perhaps the most important development to occur during Dr Fraser's visit was the signing of a Letter of Intent with Pui Ching Commercial College. "Pui Ching is a new venture in the People's Republic of China. It is being designed to introduce into China the standard of business degree programs that we have at the U of A. Working to help establish Pui Ching Commercial College on a solid footing will enable the University of Alberta to participate in international activities that would otherwise not be available to us," he says.

Memoranda of Understanding were signed with Peking University in Beijing, and Tsinghua University, also in Beijing; These are indisputably recognized to be the two top universities in the People's Republic of China.

The use of emerging technology to connect research labs and classrooms at an institution in, say, the PRC with those at the U of A, is in the "exploration stage," Dr Fraser says. However, a private sector partner would be needed to help offset the costs of two-way time charges.

On the basis of discussions with health care authorities in Taiwan and Hong Kong, Dr Fraser says there may be a role for the U of A in terms of delivery of an executive master's of public health care administration program. Alumni, while not yet plentiful, are very enthusiastic,

as are a number of "close friends" of the University, Dr Fraser reports. Alumni receptions in Hong Kong, Seoul and Beijing were particularly well attended. "They're ready to lend their hands, make calls, and get the University's of Alberta's name into the high schools, colleges and universities as appropriate."

The U of A seems to have gotten off on the right foot in terms of positioning itself internationally. The brochure prepared especially for Dr Fraser's trip scored

Continued on page 14

# Tupper, two others probing Conflicts of Interest legislation

By Folio staff

Allan Tupper has been named by Ethics Commissioner Robert Clark to chair a three-member panel that will review Alberta's Conflicts of Interest legislation and propose alternatives.

Calgary lawyer Francis Saville and the mayor of Innisfail, (Mrs) Pat Newman, join Dr Tupper, the University of Alberta's Associate VP (Government Affairs), on the panel. The panel will examine the adequacy and effectiveness of the legislation from the standpoint of considering what

higher standards would be appropriate for MLAs and senior officials.

The panel, which conducted its first meeting 29 November, has the latitude to consider the standards expected of elected and appointed officials; assess the existing legislation and guidelines; and, make recommendations on getting the appropriate standards in place, including amendments to the Conflicts of Interest Act.

Clark, who struck the panel at the request of Justice Minister Brian Evans and

Premier Ralph Klein has instructed it to report to him (Clark) by 18 December. The report will be made public and is intended to stimulate broad public debate.

The panel invites public input. Suggestions should be submitted either by phone (422-2273), by fax (422-2261) or by E-mail (IPCA@Planet.Eon.Net. ■



# CIBC gives Industry Liaison Office \$200,000

*We're banking on innovation, says bank chairman Al Flood*

By Michael Robb



President Rod Fraser and CIBC Chairman and CEO Al Flood compare notes.

The Canadian Imperial Bank of Commerce announced earlier this week it was making a \$200,000 grant to the University's Industry Liaison Office.

The money will be used to enhance ILO's technology transfer work, or, as President Rod Fraser put it, "make more seamless that flow of mind power into the community."

CIBC's grant is likely the first such initiative by any bank in North America. The grant is part of CIBC's ongoing commitment to open windows to small business development in the knowledge-based sector. Officials at the bank and the U of A are hopeful that the money will accelerate the commercialization process from research technology to the creation of spinoff companies.

CIBC Chairman and CEO Al Flood, who was on campus last Tuesday for the presentation ceremony, said, "CIBC is banking on innovation and people to bring together the expertise of government and industry with intellectual capital and innovation coming out of university research centres to enhance Canada's future prosperity."

"CIBC recognizes its business is not just banking on innovation; our business is making innovation bankable."

Martha Piper, Vice-President (Research and External Affairs), said, "This partnership represents, to my mind, the way of the future."

Dr Piper's colleague, ILO Director Jim Murray, said that for too long Canadians have seen their knowledge go to other

countries. "Knowledge-based businesses in Canada are growing up, and we want to accelerate the development of knowledge-based businesses in western Canada."

Another speaker, Joanne Raynes, director of CIBC's knowledge-based business unit, called the partnership a "new driver for the Canadian economy."

The Industry Liaison Office has helped create 43 knowledge-based companies, and these, along with other University-related businesses, have generated more than 7,700 new direct and indirect jobs in the province.

Flood said it's estimated that by 2000, ILO will have been instrumental in the creation of 11,200 jobs in almost 100 spinoff companies. ■

## Anytime/anywhere learning aim of ALP

*New program promotes development of access to learning*

By Sandra Halme

Asynchronous Learning Project (ALP). At first glance, it may appear to be the title of a song by composer/singer Sting. In actual fact, it refers to an exciting new program of the Alternate Delivery Initiative (ADI) in keeping with the University and provincial government's interest in expanding access for both on- and off-campus students.

ALP courses are ones in which the majority of the learning activities can be undertaken at a time convenient to the learner. According to Terry Anderson, ADI Director, asynchronous delivered courses are more adaptable to time constraints of professionals and others including those who work at home and those with physical constraints. "These may be independent courses or courses which use computer conferencing, E-mail or other technologies that do not restrict interaction to a particular time of day," Dr Anderson says. ALP is also designed to support faculty in the development of courses that enhance access to learning.

Dr Anderson says the goal of the program is to identify, select, and implement projects that increase instructional effectiveness and/or efficiency through the use of interactive teaching and learning technologies. "These programs will provide additional options for students who want 24-hour anytime learning," Dr Anderson adds that he expects those who received funding will develop and deliver their programs at least once by September 1996.

The new programs (11 of 25 submissions received funding totalling more than \$85,000) involve computer-assisted instruction using various media such as the Internet and World Wide Web.

Criteria used in evaluating the submissions included increasing the quality of teaching and learning at the University; enhancing access to University programming for both on- and off-campus students; increasing efficiency of teaching and learning; the importance of the course in the department's curriculum or its significance to a high-image program; the involvement of two or more faculty/graduate members; the potential to have a broad and continuing impact on faculty and/or students; and the ability of the project to be generalized to the University community and other universities.

Dr Anderson says that ADI identified several broad project categories that support effective use of technology by faculty and which also address major instructional and curricular needs. He says the development of instructional software and instructional resources was an important aspect to any proposal's success as was the capability for students' independent study. Using Internet tools for teaching and learning was an essential element in addition to the possibility of the development of software tools.

It is hoped that these initial projects will serve as models for future courses. Dr Anderson is also optimistic that ALP will provide the impetus for the development of partnerships with external bodies. ■

## Instructional Fair '96: Call for participants

The Division of Technology in Education will be hosting the Seventh Annual Instructional Fair on the afternoons of 12 and 13 March.

If you are involved in an instructional project (innovative or otherwise) which makes use of communication or information technology and which you would be interested in presenting at Instructional Fair '96, we would like to hear from you. Please feel free to suggest others who you feel may be interested in participating as well.

During the last six Instructional Fairs, many technology-based, innovative instructional projects from a variety of Faculties have demonstrated examples of communication and information technologies in teaching and learning. Last year, 26 projects were highlighted from across campus. As well, representatives from Apple Canada, MotionWare, and Smart Technologies demonstrated the latest in multimedia technology. Innovative ways of using technology in lectures, small group work, simulations, distance education, and individual study using computers, videotape or videodisc, CD-ROM, compact disk, and a variety of software were presented.

Please call Pat Routledge at 492-3667 if you are interested in participating or if you know of someone else who may be interested. A preliminary indication by the first week in January would be appreciated to speed the planning process. ■

## Basic Skills: SPSS for Windows

Sponsored by The Population Research Laboratory and the Department of Sociology  
January 17, 24, 31, 1996 (6:30 - 9:30 p.m.)

SPSS is a comprehensive and flexible statistical analysis and data management system. Using SPSS for Windows, this course covers:

- the basics of data entry (variable & value labels, missing values)
- Overviews the basic statistical and graphical capabilities of SPSS

Instructor : Janet McDonald, Private Consultant & U of A Instructor

Registration Fee : \$350 student (with ID) / \$450 non-student

Additional sessions will be offered May 1-2, 1996 and September, 1996. The Summer Institute on Quantitative Analysis of Social Data will run from June 17-21, 1996.

To register or for further information please contact:

Ms. Fran Russell, Administrator  
Population Research Laboratory  
Department of Sociology  
University of Alberta  
Edmonton, AB T6G 2H4

Ph. 492 - 4659  
Fax 492 - 2589  
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# Killam Annual Professorship for Bob Hudson, international expert in wildlife utilization

By Judy Goldsand

Bob Hudson's research contributions have been crucial in shaping international policies, specific regulations and standards for animal care, says Faculty colleague and former Chair of Animal Science, Mick Price.

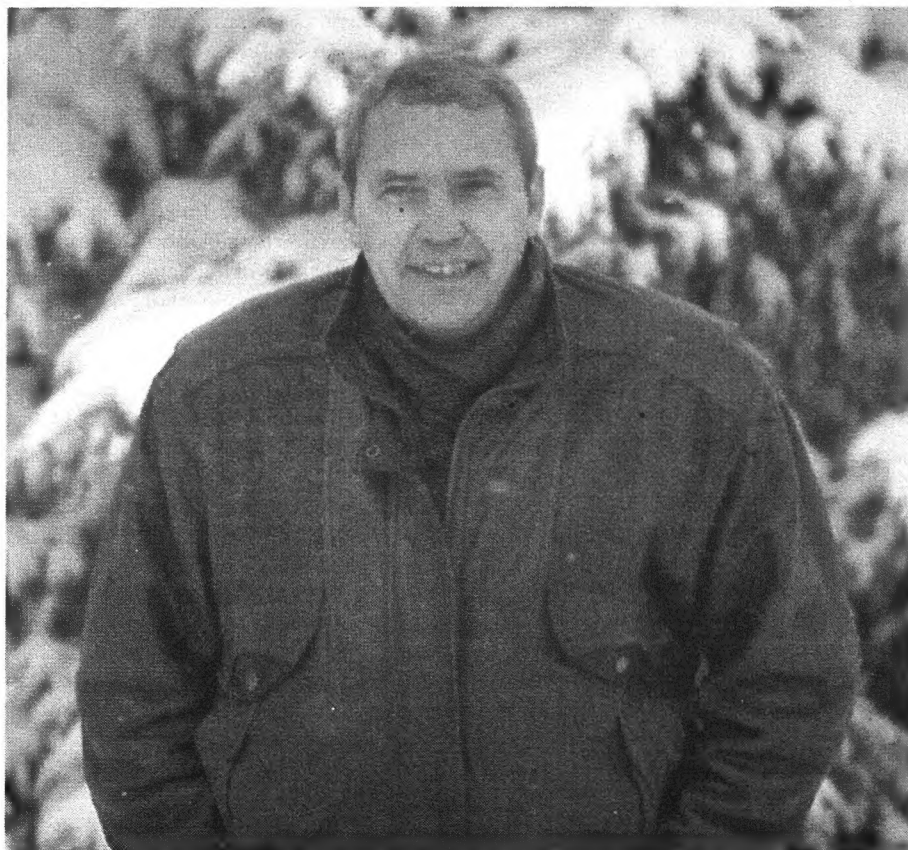
As a 1995-96 Killam Professor, Dr Hudson will continue his research into wildlife utilization for which he has a worldwide reputation for excellence. He is also the program chair for Environmental and Conservation Sciences (ENCS), a new degree program established in 1993 during reorganization of the Faculty of Agriculture, Forestry and Home Economics. The program now has close to 500 students, about half of the Faculty's enrollment.

As ENCS chair, Dr Hudson has initiated programs to make graduate education more accessible for people in the workforce. He has made a variety of educational leave arrangements to bring students from the Northwest Territories, Yukon, Parks Canada, Lakeland College, Alberta Agriculture and several universities in Kenya to the U of A.

Dr Hudson's research focuses on three related areas: 1) agricultural evaluation of wildlife and the prospects for commercial use of wildlife; 2) impact assessment, looking at the effects, inadvertent or planned, of human activity on animals; and 3) grazing system dynamics, the long-term interaction of plants and animals.

Dr Hudson conducts some of his research as Director of the Ministik Research Station which he established in 1977. Ministik, located 35 km southeast of Edmonton, is the only "industry-scale" wildlife production research facility in Canada. Dr Hudson's research provides valuable information on the energy needs and habitat use of grazing animals such as wapiti (elk), moose and bison. His findings contribute to development of reliable planning and management systems for wildlife.

On a sabbatical leave in Kenya in the mid-1970s, Dr Hudson studied elephants, rhinos, and hippos to advise on the development of new policies. "It was at a time where things were changing so rapidly," he says. "People had difficulty trying to decide between tourism and wildlife pro-



Enjoying winter is Bob Hudson, Director of the Ministik Research Station, the only "industry-scale" wildlife production research facility in Canada.

tection." Another sabbatical was spent in India. Methods and models of grazing system dynamics developed by Dr Hudson are now used in many areas of the world.

Dr Hudson is a respected author and editor whose 1993 book on deer production (Haigh and Hudson) met with worldwide demand from veterinarians, nutritionists and game farmers, among others. One revised edition and several re-printings have been released.

In 1994 Dr Hudson was presented with the Faculty's Teaching Award. He says he particularly enjoys the one-to-one interaction involved in graduate student supervision, and has maintained from eight to 12 graduate students for most of his 24-year teaching career.

Dr Hudson professes to have a keen interest in new teaching technologies. He foresees that, as interactive computer learn-

ing becomes more prevalent, new technical skills will be needed. He expects that the role of professor will shift to one of resource provider, and that the need to meet on a structured class schedule may change. He sees these changes as an exciting prospect, and one which opens new avenues for inter-institutional collaboration. ■

Please see page 11 for an article on another Killam Annual Professor, Ron McElhane.

## 'Take a positive, proactive role in health care change'

### View of first Visiting Committee in Nursing

By Judy Goldsand

A clear message from Visiting Committee members to the Faculty of Nursing was, "You've got a good story to tell. Do tell it. Take a positive, proactive role in being an agent of health care change."

In response to Dean Marilyn Wood and Chancellor Lou Hyndman's invitation to be frank and candid, Visitors concluded:

- Nurses are well placed on the front lines of care to be advocates for patients; to make sure patients' needs are foremost.
- Nurses have an important role to play in public education about health.
- Some negative tactics by the union detract from the generally positive image nurses enjoy.
- Nurses should make their voices heard regarding health care reform. As a group they can make an impact by providing critical analysis (not criticism), with positive recommendations.
- Nurses should be partners in a team approach with other health care providers.
- Nursing education should develop attributes of creativity, flexibility, sensitivity, leadership, communication and team building skills.

Twenty community leaders participated in the Faculty of Nursing's first Visiting Committee program held 23 and 24 November and co-chaired by Dean Wood and Deni Lorieau, a member of the University Senate. Nursing is the ninth Faculty on campus to hold a Visiting Committee program, which is a University outreach effort designed to

Continued on page 6

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Dr Kathy Peters tells Visiting Committee members Michelle Jones, centre, and Jan Reimer about the tiny clothing worn by preterm infants in the neonatal intensive care unit.

bring people to campus to share their experience and advice with a Faculty while learning about the Faculty's function, excellence and needs.

Visiting Committee members received a memorable introduction to the profession of nursing from Professor Emeritus Peggy Anne Field, who drew on passages from literature in describing life cycle events. "Literature can teach us very vividly lessons about illness and health," said Dr Field. With dramatic flair, she presented brief readings depicting fear of hospitals, emotional reactions to chronic illness, the despair related to childbirth in poverty, perceptions of aging, and acceptance of death. Her remarks "really set the stage for dialogue during dinner and the following day," a Visitor commented.

Visiting Committee members participated in one of four classes, and visited four research areas. Dr Kathy Peters discussed her research into the responses of preterm infants to stresses in the neonatal intensive care unit. Dr Peters demonstrated through slides how the state of infant stress can be communicated through physiology, and behavior such as facial, hand and feet signals. Activities such as sponge bathing or removing adhesive tape were seen to cause great stress to these babies.

Visitors also met with Dr Ruth Elliott who demonstrated her research involving ways to soothe crying babies, with Dr Janice Lander whose research focus is on alleviation of pain during circumcision, and with Dr Janet Ross Kerr to hear about her research into day programs for seniors.

Students in the Faculty had lunch with Visitors in small groups and both enjoyed the opportunity to talk about a wide range of issues. In the afternoon, small group discussion focusing on the changing roles for nurses followed a panel presentation. Panelists included Wendy Hill addressing Community Health, Leslee Thompson discussing Acute Care, and Marie Lyle considering Continuing Care. ■

## FIRST VISITING COMMITTEE IN NURSING

Community leaders taking part in the Faculty of Nursing's first Visiting Committee included: Deni Lorieau (Committee co-chair), Commissioner of Official Languages' representative for Alberta, BC, NWT and the Yukon; Margaret Bateman, senior partner, Calder Bateman (communications); Marjorie Bowker, retired judge and author; Austin Bridges, retired; Harry Buddle, CEO, Capital City Savings & Credit Union Ltd and local United Way Campaign Chair; Ione Challborn, executive director, WIN House; Susan Feddema, member, Region 13 health Authority; Ric Forest, president, Forest Construction Ltd; Susan Green, vice-president, Alberta Cancer Board; Sally Hall, consumer advocate; Robert Hankinson, minister, Garneau United Church; Michelle Jones, CFRN journalist; John Kloster, chair, Ecumenical and Interfaith Relations Commission; Judy Lawrence, director, The Edmonton Fringe; Audrey Luft, regional manager, Manpower Temporary Services and board chair, Edmonton Symphony Society; Hon. Dianne Mirosh, Minister for Science and Research, Government of Alberta; Lilian Newbert, former nurse and a community volunteer; Frances Picherack, board member, Capital Health Authority; Jan Reimer, former Mayor, City of Edmonton; and Shelley Williams, executive director, YWCA.

# The researches of 1995-96 McCalla Professors in Arts ...

By Folio staff

## ULYSSES EVER ARRIVING: A STUDY OF HISTORIES OF THE CANADIAN LITERATURES

ED Blodgett (Modern Languages and Comparative Studies) is examining histories of Canadian literatures. His study, he says, will discuss both North American and European histories of the Canadian literatures (anglophone, francophone, ethnic, aboriginal, and gender). In a concluding chapter, Dr Blodgett will develop a critique based on the belief that not only are all histories and their analyses constructed, they are also subject to ideological assumptions.

Of primary interest to Dr Blodgett is an investigation of the function of narrative strategies employed by literary historians to give their texts a plot and to determine what the plot is meant to signify ideologically.

Central to the project, Dr Blodgett says, is the issue of cultural difference and how it is occulted, "which lies at the heart of Canada's problem of constructing itself as a whole nation."

## IMPERIAL JAPAN AND FRENCH INDOCHINA

From 1940 to 1945, the Japanese displaced the French as the primary colonial power in Vietnam. The events of these five years, says Sinh Vinh (History and Classics), reveal much about the policies of imperial Japan as a non-Western colonial power; about war-time relations between Tokyo and Washington; and about the antecedents of Vietnam's eventual independence.

Using materials in English, French, Japanese and Vietnamese located in libraries and archives in Tokyo, Hanoi, Ho-Chi-Minh City and Paris, Dr Vinh is moving towards completing the first full-scale study of the Japanese interregnum in French Indochina. This work, he says, should be of interest to many scholars in the West, and certainly in Japan and Vietnam.

## ... and Science

### HIGH SENSITIVITY BIOANALYSIS

Norm Dovichi's (Chemistry) group has developed a set of powerful techniques for the chemical analysis of minute amounts of biological materials. These techniques, Dr Dovichi says, require expertise in a wide range of fields, including chemical separations, laser spectrometry, data processing, and biochemistry. During the 1995-96 McCalla Professorship, Dr Dovichi is focusing on three areas of research: high speed DNA sequencing, high sensitivity enzyme assays, and high sensitivity protein sequencing.

"In each case, we have two goals," he says. "First, these techniques must solve important biological problems. Second, the techniques must provide at least a factor of ten improvement in performance over the present state-of-the-art."

### DESTABILIZATION OF WIND AND WATER

One of the major issues in geophysical fluid dynamics is to describe the destabilization of ocean currents and atmospheric winds. It has long been known that these flows are dynamically unstable. That is, a slight perturbation of these flows tends to grow rapidly before undergoing stabilization. It is this process of destabilization and self-saturation which is responsible for the formation of weather systems and large-scale ocean eddies.

The McCalla research project undertaken by Gordon Swaters (Mathematical Sciences) is focused on describing the stability of atmospheric and oceanic flows with the property that their potential energy characteristics correspond to a state which is far from a state of no motion. "My immediate goals, Dr Swaters says, "are to continue to explore the consequences of the stability theory we have developed for these flows." ■

## Order of Excellence

*Continued from page 2*

The Order, which was established in 1979, recognizes people for "rendering service of the greatest distinction and of singular excellence for and on behalf of the residents of Alberta."

Dr Milner was commended for his expertise in the petroleum industry, and

Dr Winspear, for whom Edmonton's newest concert hall is to be named, was cited as one of Alberta's greatest visionaries.

Both recipients hold honorary Doctor of Laws degrees from the University of Alberta. ■

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# THE YEAR IN REVIEW

OF

*This year Music Professor Malcolm Forsyth captured his second Juno, this time for best classical composition.*



# THE YEAR IN REVIEW U OF



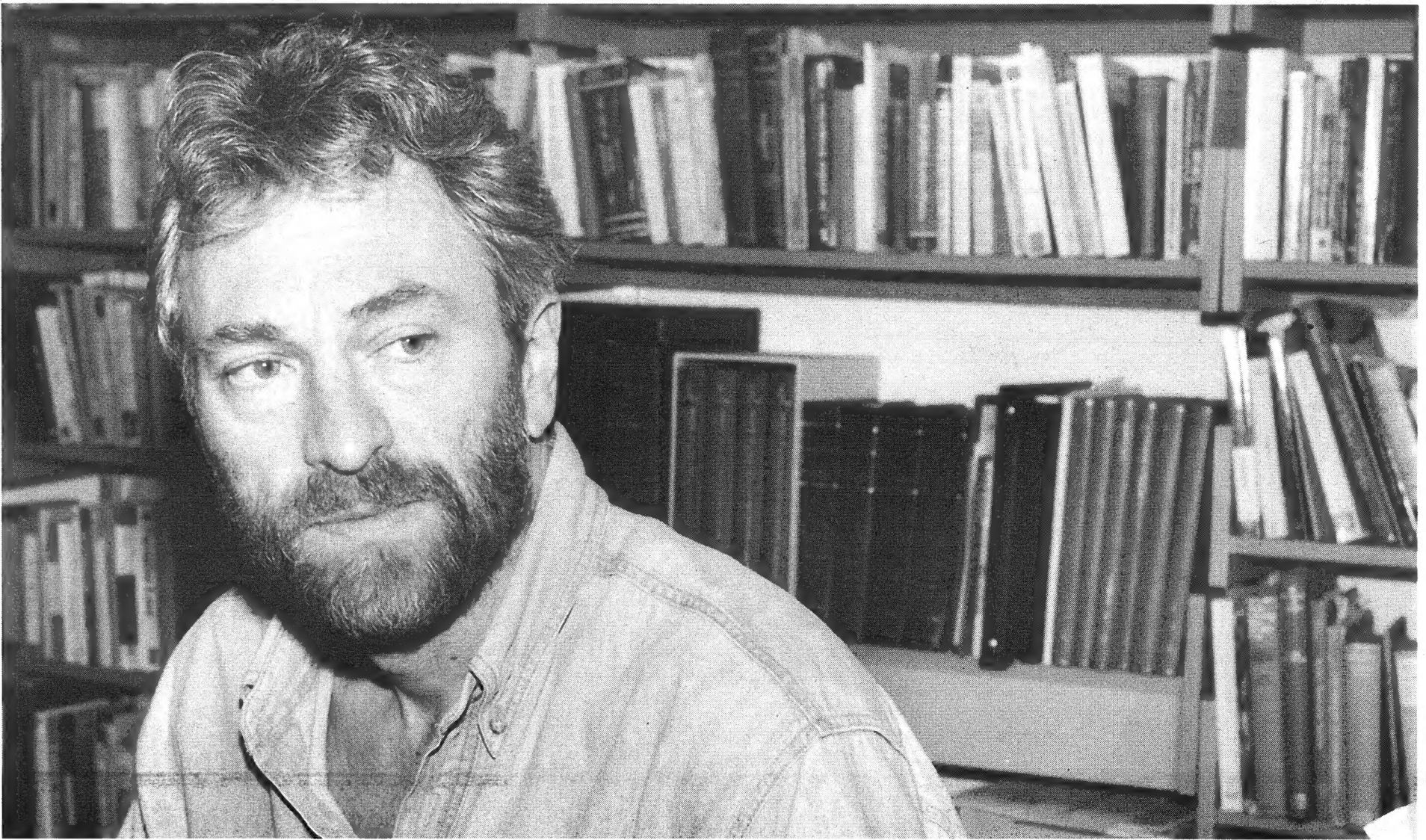
Rod Fraser  
became the  
U of A's  
11th president.



The Faculty  
of Law  
fundraising  
campaign  
kicked off.



Rubens to Picasso  
at FAB drew  
thousands.



English Professor  
Greg Hollingshead  
earned the Governor  
General's prize for  
fiction.

## JANUARY

A team of University of Alberta researchers was awarded close to three-quarters of a million dollars over three years by the Natural Sciences and Engineering Research Council and the Institute for Chemical Science and Technology to develop soil remediation techniques that will help extract organic contaminants from soils.

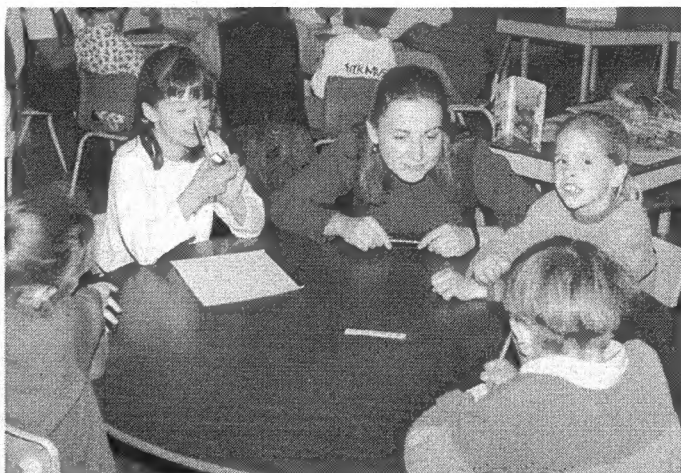
- A student and officials in University Health Services developed an interactive HIV/AIDS educational software package.
- The Board of Governors asked the University administration to conduct a complete review of all of the University's residences and come up with a long-term plan for each of them.
- Rod Fraser was installed as President and Vice-Chancellor.
- The University decided to integrate oral health sciences into the Faculty of Medicine; the Alberta Dental Association greeted the decision with a mixture of relief and praise.

## FEBRUARY

More than three-quarters of students who completed a Students' Union-sponsored survey said they were satisfied with the quality of class instruction at the U of A. Many, however, were extremely upset with the price of texts and the extent to which professors assign updated texts.

- General Faculties Council approved an executive MBA to be offered jointly with The University of Calgary.
- A U of A range team placed first on the undergraduate range management exam with the highest score ever achieved in the competition.
- Provincial Treasurer Jim Dinning met with Faculty of Business professors to discuss financial issues and policies of importance to Alberta's economy. Officials on campus said the meeting was designed to cement closer ties between the government and experts on campus.

Right:  
Faculté Saint-Jean  
students took to  
the schools.



## MARCH

The country's first Institute of Pharmaco-Economics was launched. The U of A joined The University of Calgary, the federal and provincial governments, the Alberta Heritage Foundation for Medical Research and six major pharmaceutical companies in an innovative, multimillion dollar not-for-profit research consortium.

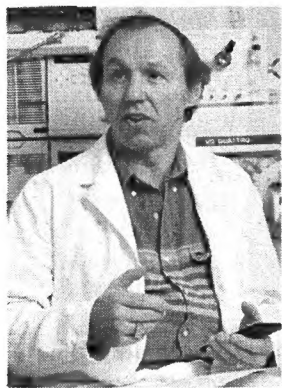
- A five-year study of the boreal forest based at the U of A was awarded a \$1.1 million grant from the Natural Sciences and Engineering Research Council.
- For the first time in its 44-year history, the Pandas volleyball team captured the Canadian Interuniversity Athletic Union title. The championship capped off an undefeated season for the team which played the final game in Edmonton before the largest crowd ever to watch a university women's volleyball event in the country.
- Officials on campus held their breath as the federal government prepared to cut transfer payments to the provinces. Student leaders warned tuition would rise in the face of federal cuts.
- Six new grants from NSERC, totalling about \$1.5 million, were awarded to collaborative project teams on campus.
- The Faculty of Business awarded its Canadian Business Leader Award to James Shaw, chair and CEO of Shaw Communications.
- The Bears basketball team captured their second consecutive national title, by beating the Concordia Stingers 84-66.

## APRIL

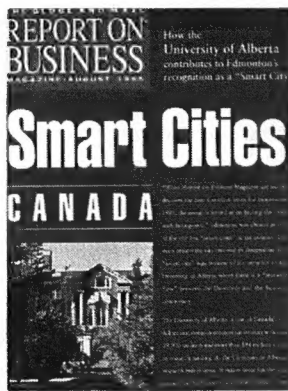
The University opened the new Timms Centre for the Arts with a gala event. The city's newest theatrical facility was described as the finest teaching facility of its kind in the country, and would help the Drama Department remain the country's top department.

- Music Professor Malcolm Forsyth captured his second Juno Award, this time for best classical composition.
- Jim Vargo, Professor of Occupational Therapy, was awarded the prestigious Council for Advancement and Support of Education Canadian Professor of the Year Award.
- Former Law Professor Anne McLellan, now a minister in the federal government, warned that universities would become mired in mediocrity if they continue trying to do everything for everybody. Speaking at the Royal Society of Canada symposium, McLellan said there can be no sacred cows.
- Mergers continued, this time with the Departments of Geology and Geography combining to form the Department of Earth and Atmospheric Sciences.





**Biochemistry Professor Bob Hodges** was recognized as a distinguished scientist by the Medical Research Council.



Edmonton was designated as one of Canada's five "smart cities", in part, because of the U of A's role in the local economy.



Premier **Ralph Klein** participated in the opening of the Glaxo Heritage Research Institute.

# THE YEAR IN REVIEW

## UA



## MAY

The University approved its comprehensive budget. Said Board of Governors member Tom Shields: "The mammoth task of tackling a cut of \$40 million from the operating budget over three years would not have been achieved without the kind of cooperation from all the staff and organizations on this campus."

- The University opened its new Centre for Ethnomusicology.
- Doug O'ram was appointed the new Vice-President (Academic), the first such VP to take on an expanded role as the internal leader, while the President expanded his off-campus, community role.
- The U of A became a key player in a Russia-Canada collaborative federalism project.
- The University approved a faculty renewal-early retirement project, described by the President as a major strategic initiative designed to attract the best and brightest faculty members in the market.
- Four new, or expansions of, programs were approved for funding by the province's Access Fund: Bachelor of Fine Arts Program in Technical Theatre, Cooperative Education Program in Chemical Engineering, Environmental Engineering Program, and Bachelor of Design Degree Program.

## JUNE

Under pressure from the provincial government to make collective agreements more flexible, the University and the Association of Academic Staff came to terms on changes to their collective agreement. Said AAS:UA President Ann McDougall, the vote in favour of the additions to the faculty agreement represents an acknowledgement that the staff association was in a difficult position. Almost 90 percent voted for the agreement. "We resent the kind of interference of the government in the process, but we also acknowledge that in the end the government does have the power to legislate and probably would have."

- The Glaxo Heritage Research Institute opened its doors on campus. The Institute is backed by Glaxo, the Province of Alberta, University Hospitals Foundation and the Alberta Heritage Foundation for Medical Research, and will conduct research on viral diseases.
- Once again, the U of A's entry in the hybrid electric vehicle project challenge placed first overall.



- The honours just kept coming ... Former chancellor Sandy Mactaggart was awarded the James L Fisher Award for Distinguished Service to Education; three professors, Gordon Rostoker (Physics), David Bundle (Chemistry) and Tim Mosmann (Immunology) were elected Fellows of the Royal Society of Canada; Bob Hodges (Biochemistry) was named a distinguished scientist by the Medical Research Council; and the Madrigal Singers were declared winners of the Robert Schumann Chorpreis, held in Germany.

## JULY

The University was named the administrative centre for the new Network in Sustainable Forest Management under the federal Networks of Centres of Excellence Program. The goal of the network is to develop a plan to more effectively manage Canada's forests and forest industries as a basis for a sustainable economy.

- The University appointed Terry Flannigan as Executive Director of External Relations for a five-year term. Dr Flannigan will be responsible for administering the University's upcoming major fundraising campaign.

## AUGUST

The *Globe and Mail Report on Business Magazine* declared Edmonton one of five "smart cities" in Canada. The publication said the city was chosen primarily because of the U of A's presence, where there is a "seamless flow" between the University and the business community.

- Music Professor Michael Roeder became the U of A's latest recipient of a 3M Teaching Fellowship.

## SEPT

Edmontonians, other Albertans, and people from as far away as Denmark and Switzerland lined up in droves to see the most significant art exhibition in the city's history. *Rubens to Picasso—Four Centuries of Master Drawings* opened at the Fine Arts Building Gallery. Drawings by Rubens, Poussin, Canaletto and Picasso, as well as a large group of French impressionists and post-impressionists, were among more than 150 works on display for seven weeks.

*Pandas' volleyball coach Laurie Eisler took the team to the finals, and won.*

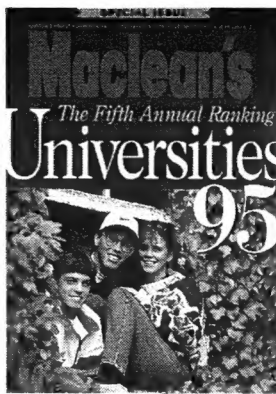
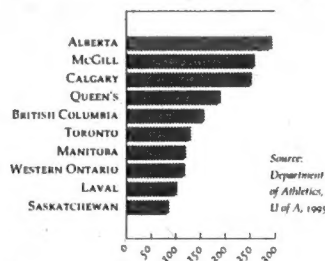
*Left: Panda power proved unstoppable.*

Continued on page 10



# THE YEAR IN REVIEW U of A

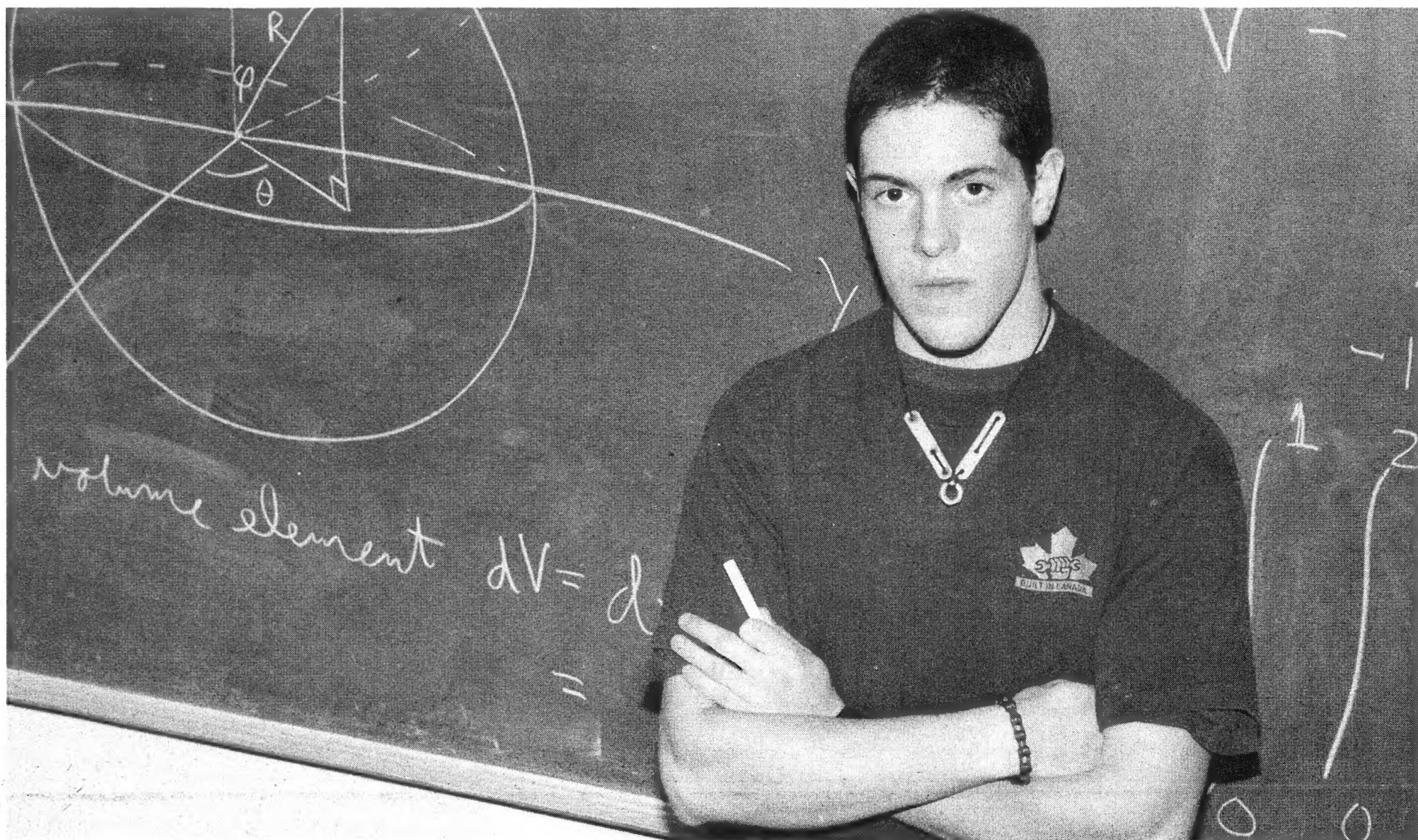
## CIAU ACADEMIC ALL-CANADIANS RANKING (1990-1995)



The U of A's budget cuts hurt, partially explaining the slip in the Maclean's ranking from sixth to eighth.



Media magnate Conrad Black delivered this year's Princeton Distinguished Lecture in Finance.



The U of A awarded a BSc to its youngest graduate, Jason Colwell.

## SEPTEMBER

- The University grappled with the news that student enrollment was down.
- The University held its first-ever annual general meeting. About 400 people crammed into the Convention Centre, 19 September, to hear about the University's achievements and its plans for the future.

## OCTOBER

Many in the University community paused to reflect on the loss, due to cancer, of two outstanding academics, Einer Boberg (Speech Pathology and Audiology) and Bill Paranchych (Biological Sciences).

- TRLabs received one of the first Canadian Synergy Awards for university-industry research and development partnerships from the Conference Board of Canada and NSERC.
- The Faculty of Law launched its fundraising campaign at the Citadel's Shocter Theatre. Federal Minister of Justice Allan Rock was on hand for the event. The Faculty set a \$3 million goal.
- The President visited Asia to cultivate relationships with potential donors, other institutions and alumni.

## NOVEMBER

The University's youngest and oldest graduates were awarded degrees at the annual fall convocation ceremonies. Seventeen-year-old Jason Colwell (BSc in honors mathematics) and 84-year-old Bill Ziegler (BSc in Civil Engineering) both took their place among the institution's proud alumni.

- Media magnate Conrad Black, CEO of Hollinger Inc, delivered the Princeton Distinguished Lecture in Finance, calling for a new relationship between Quebec and English-speaking Canada.
- English Professor Greg Hollingshead was awarded the coveted 1995 Governor General's prize for fiction for his latest book, *The Roaring Girl*. Hollingshead became the second U of A English professor in as many years to win the prize.
- The U of A placed eighth in the annual Maclean's magazine ranking of universities.
- Major new undergraduate scholarships were announced. They'll take effect next fall.



Right: Longtime U of A supporter Francis Winspear shared a word or two with Vice-President Martha Piper at the University's first-ever annual general meeting, held at the Convention Centre.

## DECEMBER

The Canadian Imperial Bank of Commerce announced a \$200,000 grant to the University's Industry Liaison Office. CIBC President Al Flood said, "CIBC is banking on innovation and people to bring together the expertise of government and industry with intellectual capital and innovation coming out of university research centres to enhance Canada's future prosperity. CIBC recognizes its business is not just banking on innovation; our business is making innovation bankable."

The money will be used to enhance ILO's technology transfer work, or, as President Rod Fraser put it, "make more seamless that flow of mind power into the community."

CIBC's grant is likely the first such initiative by any bank in North America. The grant is part of CIBC's ongoing commitment to open windows to small business development in the knowledge-based sector. Officials at the bank and the U of A are hopeful that the money will accelerate the commercialization process from research technology to the creation of spinoff companies.

The Industry Liaison Office has helped create 43 knowledge-based companies, and these, along with other University-related businesses, have generated more than 7,700 new direct and indirect jobs in the province.

- The provincial government announced it would not pass along federal transfer payment cuts to postsecondary institutions. Provincial Treasurer Jim Dinning said postsecondary institutions and regional health authorities could prepare budgets without the uncertainty caused by a hit from the federal government's deficit fighting efforts.

### The Year In Review 1995

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U of A Graphic Design Services  
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Department of Art and Design



## Ron McElhaney recognized with Killam Annual Professorship

*A world leader in membrane biochemistry*

By Judy Goldsand

"How do I describe for a lay reader-ship what a membrane biochemist does?" I asked Ron McElhaney (Biochemistry), who has been awarded a 1995-96 Killam Annual Professorship.

"Basically, membranes are structures that surround all cells and are made up of lipids, proteins and carbohydrates," said Dr McElhaney. "We study, on the molecular level, how these structures are constructed and how they work."

Dr McElhaney is widely regarded as the leading membrane biochemist in Canada, and the leading authority, worldwide, on a number of investigative techniques in membrane research. As a Killam Annual Professor, Dr McElhaney will continue his fundamental research to resolve questions underlying the structure and function of membranes.



Ron McElhaney displays models of a phospholipid and a cholesterol molecule, the major lipid components of most biological membranes.

Judy Goldsand

During 25 years at the University of Alberta, Dr McElhaney has "single-handedly created a comprehensive database for the understanding of the role of glycolipids in membrane surface interactions," says Dr Anthony Scotto of the New York Hospital Cornell Medical Center.

Professor Pieter Cullis of UBC calls Dr McElhaney the leading world authority on the application of calorimetric techniques to the study of membranes. Calorimetry is the measurement of changes in heat, which is just one of the techniques used to look at structural and dynamic changes in membranes.

Dr McElhaney is also noted as the leading authority on the *Acholeplasma laidlawii* membrane, having played the dominant role in establishing this system as the simplest biological "model" membrane to employ in asking basic questions concerning the functional roles of individual components.

Dr McElhaney's current studies of lipid-protein interaction involve creating synthetic peptides with different structural properties and seeing how those differences affect function. "We make it as simple as we can," he explains, "then we can eventually extrapolate to larger, more complex proteins."

Known as an accomplished lecturer, Dr McElhaney also has provided outstanding mentorship to many graduate students, says Dr Joel Weiner, the Faculty of Medicine's Associate Dean (Research). All of his students have gone on to be productive biochemists and many are leaders in their fields, he added.

Dr McElhaney is also noted for his contributions to science as an organizer



LAURELS

For the second year running, LC Green, University Professor Emeritus, has been appointed Distinguished Visiting Professor of International Law at the Denver Law College, University of Denver, for the period January to June.

Myer Horowitz (Professor Emeritus of Education) is the first recipient of the Odyssey Community Award, presented under the auspices of the Edmonton Chapter of the Juvenile Diabetes Foundation Canada. An honorary committee, made up of 10 of Alberta's industry leaders, chose Dr Horowitz for the award after a comprehensive review of nominations that were based on scope, achievement, dedication, leadership and originality.

Educational Psychology Professor Gerry Kysela has received the Psychology Foundation of Canada's 1995 Award for Contribution to Knowledge for the research and work he has done with parents and families whose children have special needs. The award was presented at the Foundation's Annual Awards Dinner in Toronto, 4 December. Dr Kysela was accompanied by his daughter, Alenia.

Two of the five northern Alberta recipients of 1995 Pinnacle Awards are University of Alberta alumni. Gail Hall (BA 1985) and James Montgomery (BSc Engineering 1966) were recognized for "entrepreneurial achievement in the face of economic adversity". Hall founded Gourmet Goodies in 1985, and the company soon developed a specialty niche by providing catering services to entertainers performing in Edmonton. Montgomery founded Thermo Design Engineering Ltd in 1979, and the company has become a leader in

Continued on page 13

Continued on page 12

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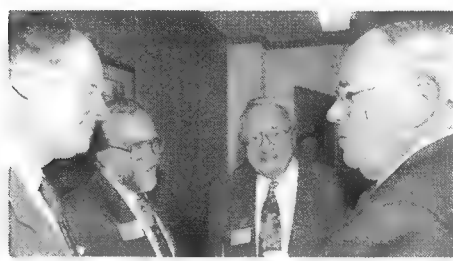
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## Knock on wood

**Renewable Resources again benefits from Weldwood's generosity**

By Ron Thomas



Mike Voisin, Director of Communications for Weldwood, left and Don Laishley, Director of Forest Strategy, right, chat with Bruce Dancik, second from left, and Terry Flannigan, Executive Director of External Relations.

Don't ask them to do windows, but staff in Renewable Resources might be amenable to installing some panelling. They're old hands at it now, as a look at the new conference room in 812 General Services Building will attest to.

The "sweat equity", as Bruce Dancik, Professor and Chair of Renewable Resources, puts it, came about when Weldwood of Canada Limited, a longtime supporter of the department, donated \$20,000 for oak panelling, chairs and other furnishings. Renewable Resources then converted the conference room into a new and improved conference room.

The Weldwood Room, which was officially opened 27 November, seats up to 30 people.

The partnership with Weldwood is one of the oldest in this program (BSc in Forestry) and in the department, Dr Dancik, who is also Associate Vice-President (Academic), said. He pointed out that Weldwood has for years been the largest industrial supporter of the Forest Industry Lecture Series in which a guest lecturer spends a week on campus, delivers one or more lectures and interacts extensively with students and faculty. Weldwood, which has been in operation in Alberta for more than 40 years, also supports students' field work at Hinton and provides summer employment opportunities.

The BSc Forestry program began nearly 25 years ago and close to 1,000 students have graduated from it. Many of these graduates have put their knowledge to work on behalf of Weldwood, Dr Dancik said.

Noting Weldwood's partnership with the department, Don Laishley, director of forest strategy in the company's Vancouver offices, said good science and the application of good science is the best way to deal with criticism of forestry practices. "We honour the University and where it's going, and we hope we can give more support," Laishley said. (He drew no attention to it, but since 1990, Weldwood has donated \$50,000 each to the Environmental Health Program in Medicine and the Safety Engineering and Loss Management Program in Engineering.) ■



## LAURELS

Continued from page 11

the design and production of natural gas processing plants, supplying oil and gas markets in Alberta, the United States, Europe, the Middle East and the Orient.

The National Cancer Institute of Canada's William E Rawls Prize has been awarded to Susan Rosenberg (Biochemistry). The award—a certificate and a \$1,000 prize courtesy of Eli Lilly Inc—is given annually to a Canadian investigator permanently residing in Canada whose first doctoral degree was obtained within the previous 10-year period and who has been the principal investigator in activities conducted in Canada which are judged to be outstanding contributions to cancer research.

## Challenging the stereotype of how scientific discoveries are made

**McGill professor studies molecular biology labs to uncover cognitive processes at work**

By Michael Robb

How do scientists think, reason and make discoveries? Turns out, it's a little more complex than the stereotype suggests.

According to Kevin Dunbar, associate professor of psychology at McGill University, the way conceptional change occurs in science is much like evolutionary change. "The small little changes come together and produce major changes."

Dr Dunbar rejected the classical notion that induction and analogical reasoning often produces massive, gestalt-like shifts in knowledge. "It actually occurs in a much more piecemeal fashion," said Dr Dunbar, the fourth speaker in the Department of Psychology's monthly colloquium series organized by graduate students.

In fact, analogy plays a very specific role in changing the specific representation of knowledge at specific points in the process, rather than being a global mechanism that comes in and completely restructures everything, said Dr Dunbar, who spent a year in four of the leading molecular biology laboratories in the world, conducting interviews, sitting in on laboratory meetings, poring over documents and charting the successes and failures of lab projects.

One lab studied immunology, another the cellular and molecular biology of parasites, another the molecular biology of the HIV virus and another the molecular biology of bacteria. All of the labs are at the forefront of their respective fields of research.

Dr Dunbar paid particular attention to the use of analogical reasoning, the use of unexpected findings, what happens when groups of scientists reason together and what series of events leads to conceptional changes in the field of study.

He said the use of related analogues is a "very powerful tool in making discoveries." Seldom are distant analogues used. The successful labs engaged in a combination of high- and low-risk projects, paid attention to unexpected findings, had overlapping research and used techniques from other disciplinary areas.

Dr Dunbar suggested it was important to have labs staffed with people from a diversity of backgrounds. "There was one lab where everyone was from the same background. They used the same source or target all the time, and when they encountered a problem, having the group was no better than having one [person]."

The image of the scientist with the huge cranium, working alone into the wee hours of the morning still dominates the research on science, he said. The reality—distributive reasoning—is quite different, he argued. "One person might do one part of an induction, another person might do another part, and another person might do a part of a deduction ... so it's no longer within one person's head any more."

Yet there's still little research on group reasoning in science—especially groups with large knowledge bases, Dr Dunbar said. "Distributive reasoning provides alternate representations," he said, pointing out the main problem with individuals in reasoning experiments is the great difficulty in generating alternate representations. Moreover, citing a meeting of members of the HIV lab, the process of coming up with alternate representations by members of the group can be tremendously accelerated, whereas it might take an individual months to do.

Dr Dunbar presented his recent work to a large interdisciplinary audience 1 December. ■



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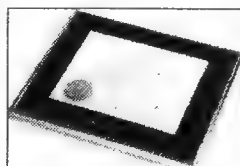


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Photo Services

Responsible for the design and installation of the Winspear Wall is (centre) Elizabeth Whitlock Clark, Director of Development and Community Relations, Faculty of Business. She is seen with Harriet and Francis Winspear.



Photo Services

During the festivities, Dr Winspear took a reflective stroll along the Winspear Wall, which includes (foreground) his Order of Canada Award and his newest honour, the Alberta Order of Excellence, presented 23 November at Government House.

## Winspear Wall unveiled

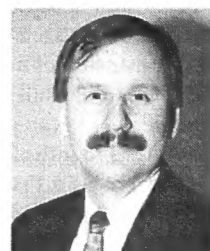
The Winspear Business Reference Room has taken on a new look. Over the past few months, more than 50 plaques, citations and other awards presented to Faculty of Business benefactor Francis Winspear over the past four decades were hung in the Faculty Library. On 24 November, family and friends of Dr Winspear gathered in the library for the official unveiling of the Winspear Wall.

## Director of Development, Senior Development Officer assume duties

By Folio staff



Guy Mallabone, Director of Development



Marcus Schwabe, Senior Development Officer (Major Gifts)

Guy Mallabone and Marcus Schwabe took up appointments with the University of Alberta Development Office this week.

Mallabone, Director of Development, and Schwabe, Senior Development Officer (Major Gifts), will work closely with Dr Terry Flannigan, Executive Director of External Affairs.

A BComm graduate of The University of Calgary, Mallabone has 15 years' experience in senior development. Most recently, he served as the Director of Financial Development for the Canadian Red Cross Society (Alberta/NWT Division) located in Calgary. Mallabone sits on the executive of CSFRE (Canadian Society of Fund Raising Executives) - Southern Alberta Chapter and is a member of the National Society of Fund Raising Executives Canadian Initiatives Task

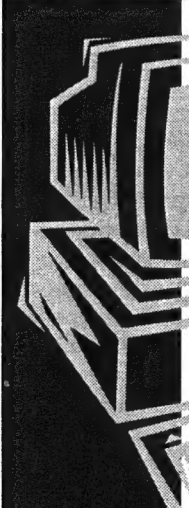
Force. He holds CSFRE certification from the National Society of Fund Raising Executives.

For the past eight years, Schwabe has been the Director of Alumni and Church Relations for Augustana University College in Camrose. A number of lines in his résumé are taken up by his work in major gifts, communications and public relations, program development and volunteer management. He is a member of the Alberta Association of Fund Raising Executives (AAFRE) where he is the chairperson for the Conference Program Committee. Schwabe holds two degrees from the University of Alberta: a BEd '84 (Mathematics) and a BSc '82 (Mathematical Statistics). As Senior Development Officer (Major Gifts), he is responsible for managing and coordinating gifts of more than \$10,000.

Both Mallabone and Schwabe will concentrate their efforts in support and development of the University's major campaign. ■

## McElhaney Continued from page 11

and advisor for many international societies and organizations. He has a lengthy record of invited lectures and publications, and currently serves on the editorial boards of the *Biophysical Journal* and *Chemistry and Physics of Lipids*. ■



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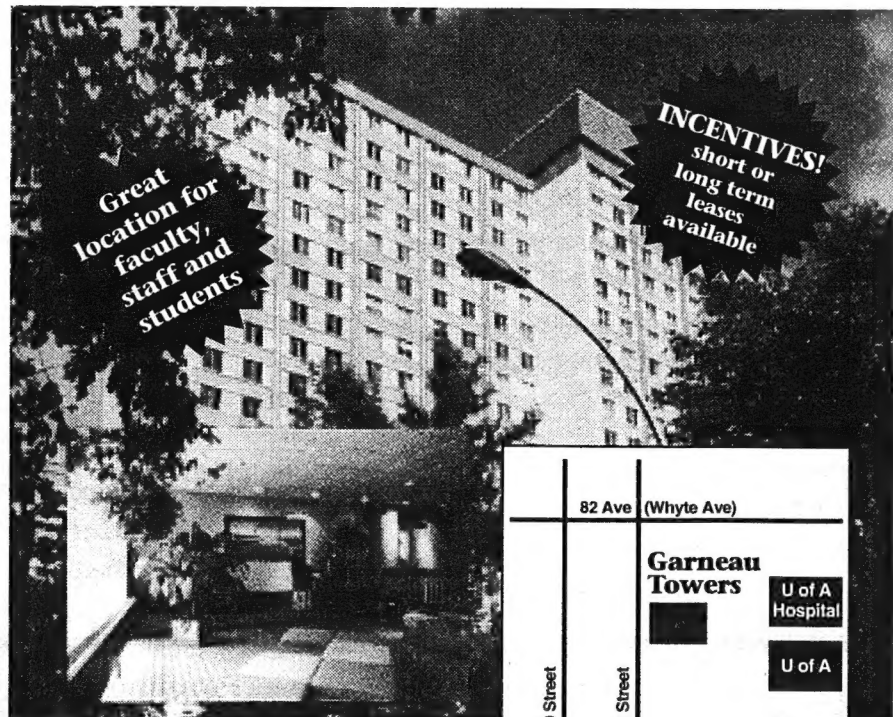
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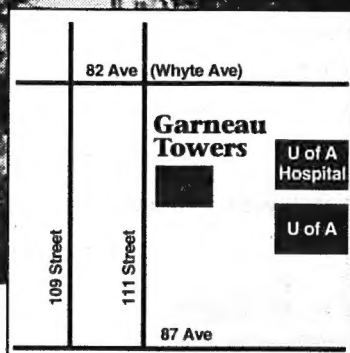
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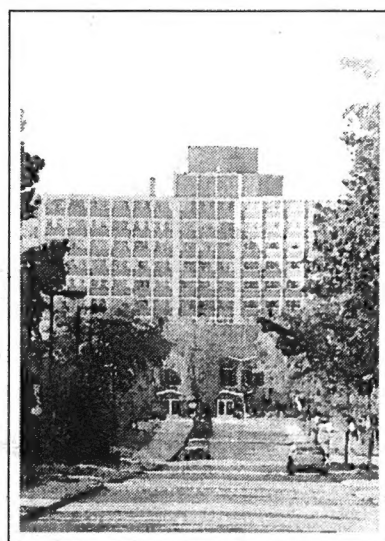
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## 1996-97 KILLAM ANNUAL PROFESSORSHIPS: APPLICATION PROCESS

Applications for the 1996-97 Killam Annual Professorships are now available. All regular, continuing, full-time, academic faculty members who are not on leave during 1996-97 are eligible to apply. Deans, Department Chairs and other senior University administrators shall not normally be eligible for Killam Annual Professorships. The eight Killam Annual Professors will be selected by a subcommittee of the Killam Trusts Committee; no more than two Professorships shall be awarded to staff members in any one Faculty. Each Killam Annual Professor shall be presented with a \$2,500 prize and a commemorative scroll. The duties of Killam Annual Professors shall not be changed from those that they regularly perform.

The primary criterion for selection shall be a record of outstanding scholarship and teaching over three or more years, as evidenced by any or all of research, publications, creative activities, presented papers, supervision of graduate students, and courses taught. The secondary criterion shall be a substantial contribution to the community beyond the University by linking the applicant's University responsibilities and activities to community needs and/or development.

Awards are tenable for 12 months commencing 1 July 1996. The completed application must be received in the Office of the Vice-President (Research and External Affairs) by **Friday, 26 January 1996, at 4:30 pm**. The awardees shall be announced no later than Friday, 10 May, and they will be formally recognized at the Killam Dinner in the autumn of 1996 which is hosted by the Faculty of Graduate Studies and Research.

For further information and application forms, please contact Katharine Moore, Executive Assistant, Office of the Vice-President (Research and External Affairs), by phone: 492-0868, fax: 492-3189, or E-mail: [katharine.moore@ualberta.ca](mailto:katharine.moore@ualberta.ca)

## GSA looks to the future with confidence

By Ron Thomas

The annual turnover of the Graduate Students' Association executive is a double-edged sword. There's that instant infusion of new ideas and energy but some things fall through the cracks because people can only accomplish so much in 12 months.

Current GSA President Jay Krushell and Executive Vice-President Amit Monga are working to change that by coming up with a strategic plan, much if not all of which could be used at least through 1997.

They're enthused about the plan ("It's high time we formalized this," Monga says) and it has the wholehearted support of the 120-member GSA Council.

Certainly, executive teams of the future will need the stamina and organizational abilities of Krushell and Monga if the plan is to be effective. In the first of the key objectives—marketing the GSA to grad students, the rest of the University and the external community—Krushell

and Monga have made presentations in all academic departments on campus, informing students of GSA's many services, from an ombudservice, dental plan and insurance package to advice on the treatment of intellectual property to "cheap" photocopying and faxing services. (Along the way, they've met faculty members who think that the GSA is part of the Students' Union, and they've made every effort to set them straight.)

The GSA has been working closely with the Faculty of Graduate Studies and Research, addressing issues such as the drop in enrollment and the development of benchmarks for admission. Through its home page on the World Wide Web, the GSA receives enquiries about graduate studies prerequisites. These are forwarded to the appropriate departments and graduate coordinators, thus greatly reducing the time that traditional methods of correspondence would consume.

Another issue that the GSA is involved in is the development of regulations governing the Academic Internship Model, which is scheduled to come on-stream in the 1996-97 academic year.

Externally, Krushell and Monga are collaborating with the Office of Alumni Affairs to heighten the awareness among alumni in Edmonton and environs about graduate students and their contribution to the University and community. Talks at professional bodies like the Canadian Society for Engineering Management, APEGGA, and the Law Alumni Association are planned and the GSA is participating in next month's education awareness campaign, along with the U of A Students' Union and its counterparts at The University of Calgary and University of Lethbridge.

The "communication" aspect of the strategic plan calls for the GSA to establish

*Continued on page 15*

## Fraser in Asia *Continued from page 3*

a 10 on a 10-point scale, he says, pointing out that translating it into Korean and Chinese brought home to his hosts the seriousness with which the University takes its internationalization efforts. The U of A is one of the first universities to do this and is thus ahead of many of its competitors.

The University also got "strong points" for being candid about where it is and where it's going. According to Dr Fraser, other universities come to Asia touting themselves as being the best. The U of A's style—outlining its strengths and weaker areas matter-of-factly and detail-

ing the steps it's taking to improve itself—was well received abroad, Dr Fraser says. (The new brochure, "Indisputably Recognized", shows where the U of A stands in relation to its peers and where it must direct its efforts in the future.)

Dr Fraser was accompanied by Wilfred Allan, Director of Alberta International, and Zoology Professor Larry Wang, who took his first degree at Taiwan Normal University in Taipei. "The success we had in all three areas where Mandarin is spoken was due to Larry's opening of doors," Dr Fraser says.

### A paradigm shift

As a young student, Rod Fraser studied the Mercator projection and saw Montreal, Toronto and New York as being closest to the centre of action. Much later, he started reading, as an economist will do, of the tremendous economic growth in Asia. "It was quite another thing," he says, "to come to the U of A [after spending 32 years outside Alberta] and hear people

both on campus and off talk about how we can build better bridges with East Asia."

Before each trip, he consulted with groups of students from Korea and the People's Republic of China, respectively, and boned up on his reading.

"The projection is that within 20 to 25 years the East Asian economy will generate a \$200 billion surplus annually. We need a different map, a new image of the world for the next century." ■

## RESEARCH REVELATIONS '96

Research Revelations '96 will take place Saturday, 10 February, from 10 am to 5 pm on the main floor of the Central Academic Building. The event is open to all researchers in all Faculties, departments and units. Entry forms have just been sent to all academic staff; the entry deadline is Wednesday, 17 January.

The purposes of Research Revelations '96 are the same as its two successful predecessors. They are:

- to create opportunities for collaborative, interdisciplinary research projects; and
- to give researchers and graduate students an opportunity to meet colleagues in other academic units and to discover the wide range of research activity that is taking place at the University of Alberta.

For further information, please communicate with:

David Norwood,  
Office of the Vice-President  
(Research and External Affairs)  
phone 492-4730/fax 492-3189  
E-mail: [david.norwood@ualberta.ca](mailto:david.norwood@ualberta.ca)

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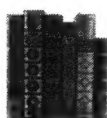
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Anne has extensive experience in trust law. As counsel for the Alberta Law Reform Institute, she revised the rules of practice for the administration of estates and helped draft a plain language will precedent for Alberta law firms.



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## TALKS

### AGRICULTURAL, FOOD, AND NUTRITIONAL SCIENCE

12 December, 3 pm

LA Goonewardene, manager, Research Support Group, Animal Industry Division, Alberta Agriculture, Food and Rural Development, "Hoof Cracks in Cattle—Association of Weight, Age, and Condition." 1-06 Agriculture-Forestry Centre.

### BIOLOGICAL SCIENCES

13 December, 3:30 pm

Chris R Bleackley, "Induction of Apoptosis by Cytotoxic T-Lymphocytes: Worms Point the Way." M-149 Biological Sciences Centre. This seminar is part of the Genetics 605 Seminar series.

### CENTRE FOR INTERNATIONAL EDUCATION AND DEVELOPMENT, ST JOSEPH'S COLLEGE, POLITICAL SCIENCE

11 December, 1 pm

Eliseo Mercado, omi, "Muslim-Christian Relationships in the Philippines: Autonomy, Conflict, and Peace." Faculty Lounge, St Joseph's College.

### ECO-RESEARCH CHAIR IN ENVIRONMENTAL RISK MANAGEMENT

8 December, 3 pm

David Wilson, "From Pipe Failure to Fatality: Uncertainties in Assessing Toxic Gas Hazards." 2F1.04 (Classroom D) Mackenzie Health Sciences Centre.

### PHARMACOLOGY & CARDIOVASCULAR DISEASE RESEARCH GROUP

13 December, noon

Martin Feelich, director, Nitric Oxide Research, Schwarz Pharma, "Pharmacology of Nitric Oxide (NO) Donating Compounds." 207 Heritage Medical Research Centre.

18 December, 4 pm

William C Stanley, director, Development Pharmacology, CV Therapeutics, Palo Alto, California, "Fuel for the Heart: Regulation of Myocardial Carbohydrate Metabolism in Man." 207 Heritage Medical Research Centre.

### PHARMACY & PHARMACEUTICAL SCIENCES

18 December, 10 am

David Grainger, associate professor, Department of Chemistry, Colorado State University, "Ultrathin Organic Films as Biomedical Surfaces and Models for Biomaterials Interactions." 2031 Dentistry/Pharmacy Centre.

19 December, 10 am

Dr Grainger, "Lipid Monolayer Membranes as Well-defined Surfaces for Protein Binding." 2031 Dentistry/Pharmacy Centre.



## POSITIONS

The University of Alberta is committed to the principle of equity in employment. As an employer, we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.

### ACADEMIC STAFF

#### DEAN, FACULTY OF EDUCATION

The University of Alberta invites applications and nominations for the position of Dean of the Faculty of Education. The Faculty of Education provides professional preparation for teachers and graduate study opportunities for those interested in more specialized advanced work in the field of education. Undergraduate programs are available in elementary, secondary and adult education, leading to a four-year BEd degree or a two-year BEd for holders of approved undergraduate degrees. The Faculty has approximately 124 full-time faculty members in four departments: Educational Policy Studies, Educational Psychology, Elementary Education, Secondary Education and the School of Library and Information Studies. Undergraduate enrollment is approximately 3,250 students with approximately 850 graduate students.

The Dean is responsible to the Vice-President (Academic) for the supervision and administration of the academic programs, budget and all activities of the Faculty. Candidates should have proven administrative ability, well-developed leadership skills and strong academic qualifications in a field of research that enhances the activities of the Faculty.

The appointment will take effect on 1 July 1996 or as soon as possible thereafter. Written nominations or applications, accompanied in the latter case by a résumé of qualifications and experience, and the names of three referees, should be submitted by 15 February 1996 to: Dr Doug Owram, Vice-President (Academic), Third Floor University Hall, University of Alberta, Edmonton, Alberta, Canada T6G 2J9

#### DIRECTOR OF FUND DEVELOPMENT AND PUBLIC RELATIONS, FACULTY OF MEDICINE

The Faculty of Medicine is seeking a Director of Fund Development and Public Relations to coordinate the Faculty's public relations and fundraising activities. The successful candidate will work with the Faculty of Medicine and the University of Alberta's Development Office to coordinate

Campaign activities. The Director will also be responsible for working with faculty, medical alumni, the media and hospital foundations as well as national organizations on a variety of activities related to enhancing the profile of the Faculty of Medicine. This will include responsibility for producing annual reports, case statements for fundraising purposes, newsletters, brochures, etc.

The successful candidate must have knowledge in fund development principles, policies and strategies and have a strong background as a senior administrator with at least three years in fundraising, public relations or other relevant experience. The candidate must have excellent written and oral communications skills as well as leadership and teamwork abilities.

Applicants are invited to submit a résumé, and a letter explaining their interest in and strengths for the position, to: Dr D Lorne J Tyrrell, Dean, Faculty of Medicine, University of Alberta, 2J2.00 WC Mackenzie Health Sciences Centre, Edmonton, Alberta, Canada T6G 2R7

The deadline for applications is 15 December 1995 and a starting date early in 1996 is anticipated. This a contract position, and a competitive salary is offered.

### SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly Employment Opportunities Bulletin.

## GSA

Continued from page 14

and maintain a World Wide Web site and to produce its newsletter, *Currents*, electronically.

The GSA used to be thought of as confrontational, and while Krushell and Monga admit that there was some basis for that, they say the organization is results-based and believes that it has more to gain by working with central administration at every opportunity. "We want to be a very active part of a very active campus," they say. That attitude has resulted in an invitation to participate in discussions about the proposed merger of the Academic Development Committee and



## AWARD OPPORTUNITIES

### CORPORATE-HIGHER EDUCATION FORUM AWARDS

The 1996 Corporate-Higher Education Forum Awards Program is now open for nominations. Two cash prizes of \$5,000 each are offered to promote and recognize excellence in furthering corporate-university cooperation in research.

The Bell Canada-Forum Award is awarded to the outstanding individual researcher or team doing cooperative research of major significance. The Hewlett-Packard (Canada) Ltd-Forum Award honours remarkable achievement in facilitating corporate-university research collaboration.

Nominees may be individuals or groups. Only work performed in Canada will be evaluated. Selection criteria include evidence of exemplary initiative and leadership, vision and creativity, effective working relationships, tangible benefits resulting from the research collaboration and involvement of students.

A selection committee, chaired this year by Jack Clark, president and CEO, C-CORE, will choose the successful candidates. Nominations will close 1 March 1996 and awards will be presented in Toronto in mid-June.

Nomination forms can be obtained from the Forum office. Requests may be made by fax to (514) 876-1498 or by writing to: Corporate-Higher Education Forum, 1155 René Lévesque Blvd West, Suite 2501, Montréal, Québec, H3B 2K4

the Planning and Priorities Committee, and in President Rod Fraser calling the GSA "one of the most active, get-with-it organizations in our peer set."

Krushell and Monga also have big plans for the annual GSA Awards Night, scheduled for 15 April in Bernard Snell Hall. "This is the GSA's marquee event," they say. More financial support has been secured and they're encouraging Economic Development Edmonton to interest business leaders in the Awards Night which is cosponsored by the Faculty of Graduate Studies and Research. ■

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## EVENTS

### EXHIBITIONS

#### BRUCE PEEL SPECIAL COLLECTIONS LIBRARY

Until 22 December

"John Bunyan: The Books He Read, The Words He Wrote"—an exhibition of mostly seventeenth-century books. Hours: Monday and Friday, 8:30 am to 4:30 pm; Tuesday to Thursday, 8:30 am to 6 pm; Saturday, noon to 5 pm; Sunday, closed. Information: 492-5998. Basement, Rutherford South.

#### FAB GALLERY

Until 10 December

"Jeffrey Burns—Down Garden Paths". This exhibition is the final presentation in partial fulfillment for the degree of Master of Fine Arts in Painting.

Hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; Saturday, Monday and statutory holidays, closed. 1-1 Fine Arts Building.

#### VANDERLEELIE GALLERY

9 December to 8 January

Original miniatures in glass by Graham Peacock. Hours: Monday to Friday, noon to 5:30 pm; Saturday, 10 am to 5:30 pm. 452-0286. 10344 134 Street.

### MUSIC

#### EDMONTON YOUTH ORCHESTRA

9 December, 8 pm

Senior orchestra in concert. Tickets: \$10 adults, \$7 seniors and students. Convocation Hall.

17 December, 3 pm

Intermediate orchestra in concert. Tickets: \$10 adults, \$7 seniors and students. Convocation Hall.



## ADVERTISEMENTS

### ACCOMMODATIONS FOR RENT

GLENORA - Classic four bedroom home. Bright. Attractive. Newly renovated. All appliances. Seven minutes to University. From January through December 1996. \$900. 455-9085.

\$225/ROOM/MONTH, 109 Street 74 Avenue. 433-5674.

OLIVER - Luxurious condominium with spectacular river valley view. One bedroom, dining/den, sunroom, underground parking. 1,011 square feet. Nonsmokers. \$1,100 plus utilities. 454-2125.

BELGRAVIA - Sunny spacious three bedroom bungalow, 1 February, one year lease. Fenced yard, garage. Western Relocation Services Ltd. 434-4629.

UNIVERSITY AVENUE - Two storey three bedroom with wonderful space, character and charm throughout. Partially furnished, \$1,000, immediate, lease. Western Relocation Services Ltd. 434-4629.

TWO BEDROOM BASEMENT, furnished, utilities, laundry, parking. Pay phone/cable. Nonsmoking mature students, quiet lifestyle preferred. Recently renovated, hardwood. Adult couple upstairs. Bus, bike, walk to campus. Available 15 December. DD \$300, rent \$400. 467-8473.

JANUARY THROUGH MAY, one bedroom condo, close to University, river view. \$550 includes utilities and parking. Pool and fitness centre, 433-6130.

SPACIOUS TWO BEDROOM, TWO BATHROOM condo, one block from University, six appliances, underground parking, security, balcony. \$875/month including utilities. 437-8143.

HOUSE FOR RENT, PARKVIEW - \$650/month. Call Abe Hering, 481-2950.

MILL CREEK, 9835 93 Avenue, two large bedrooms, four appliances, new furnace/paint. \$750/month; includes separate entrance basement suite. 433-0870.

SOUTHGATE AREA - Three bedroom bungalow, 1 1/2 baths, four appliances, new paint, carpet and linoleum, direct bus to University. \$725/month. Immediate possession, 436-3616.

ON RAVINE, FURNISHED - Two bedroom house, three baths, study, 10 minutes University. Available January through March 1996. Rent negotiable, plus utilities. 452-8224.

LARGE TWO-BEDROOM highrise condominium, furnished, ten minutes to University or downtown. \$950/month plus utilities. 433-3673.

BELGRAVIA BASEMENT SUITE for two serious committed students. Available 1 January 1996. Graduate students welcome. No smokers, pets. \$550/month inclusive utilities. Enquiries, appointments: 8-9:30 am, 5-6:30 pm, telephone 434-7338.

ONE BEDROOM CONDO, 8220 Jasper Avenue, 1,275 square feet, 12th floor, spectacular river valley view. In suite laundry, underground parking. Available 1 January 1996. Rent \$775/month. Call Dennis: 486-8008 or 484-1247.

DELUXE, FULLY FURNISHED one bedroom condo, 18th floor river view, pool, sauna, one block to campus. Available January. 492-3633, 489-0893.

### ACCOMMODATIONS FOR SALE

VICTORIA PROPERTIES - Knowledgeable, trustworthy realtor with Edmonton references will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. (604) 387-7100, Lois Dutton, Duttons & Co. Ltd. #101-364 Moss Street, Victoria B.C. V8V 4N1

CALL NOW!! - To buy, sell, lease a condominium. \$32,900 to \$695,000. Ask for Connie Kennedy, Condo specialist/consultant. Twenty-five years' expertise. RE/MAX, 488-4000, 482-6766.

UNIQUE - Architect-designed house. Quiet and privacy on private ravine, 15 minutes to University or downtown. 2,465 square feet of highest quality construction and design. This one-of-a-kind house offers country living in the city. \$450,000. 492-6359, 484-5703.

UNIQUE DESIGN with vaulted ceilings, lots of windows, and a panoramic view. Quality construction, three bedrooms, quiet treed street near river valley. Ann Dawrant, Spencer Real Estate. 483-7170.

BELGRAVIA - Three bedroom bungalow, finished basement, great location, \$139,500. Ed Lastiwka, Royal LePage. 446-3800.

UNIVERSITY/MCKERNAN - Four bedroom, two storey, beautifully renovated. Great location, \$143,500. Ed Lastiwka, Royal LePage, 446-3800.

EXCELLENT VALUE, CONDO, two blocks to University, one-bedroom, river view, pool and fitness centre. Super price, \$69,500. 433-6130.

LANDSOWNE, \$129,888. Spacious, 1,350 square feet, open floor plan, bungalow. Five bedrooms, many windows, natural bright light. Huge family room, kitchen, his and her closets. Numerous built-ins. Ideal location for University. Steps to

direct bus, tennis (indoor and outdoor), shopping. Call Bruce McKim now, 438-5100 (24 hours), Royal LePage.

MALMO - Immaculate bungalow. Four bedrooms. Many upgrades. Great location. Walk to Southgate or schools. Chris Tenove, Spencer, 483-7170.

GRANDVIEW - \$149,900. Great location. Quiet street. Four bedrooms. Walk-out basement. Home or investment. Owner transferred. Immediate possession. Chris Tenove, Spencer, 483-7170.

NORTH WINDSOR PARK BUNGALOW - Two bedrooms, large living room and kitchen, hardwood floor, study, two baths, large yard, garage, security system. Private sale (no agents please), \$161,500. 492-4301.

LIFESTYLE FRIENDLY - Spacious three bedroom condominium. Gorgeous view Whitemud valley. Large 6 3/4 percent mortgage. Aspen Garden Estates. 4404 122 Street. \$151,900. Rental considered. Bill Lockhart, Spencer Real Estate, 483-7170.

ONE-OF-A-KIND CONDO - Over 2,400' of luxurious living space in exclusive seven unit complex, walking distance to University. River valley view, family room, fireplace, much more. Shirley Maroney, Re/Max, 439-7000.

TWO GREAT CONDO BUYS close to University: Hampton Village, two bedrooms, den OR Hearthstone by ravine, three bedrooms, attached garage. Denise Rout, 483-7170, Spencer Realty.

GRANDVIEW, FOUR BEDROOM HOME, \$164,900. Walking distance to school. Denise Rout, 483-7170, Spencer Realty.

### SERVICES

EARTHWRITE EDITORIAL SERVICES - Prompt professional editing of dissertations and theses. Contact Dr Evelyn Ellerman, 466-5941.

HOME CLEANING - Hardworking, bonded staff. Reasonable rates. Able Maids, 433-9697.

TECH VERBATIM Word Processing; editing, résumés, theses, medical terminology, campus. Donna, 440-3714.

MARK EHRMAN CARPENTRY LIMITED - Bathroom and kitchen renovations. Custom cabinets and finishing carpentry. References available. Phone 463-0889.

SPECIAL HOUSE CLEANING plus walls, windows, blinds, etc. Call 476-7291, cellular 990-7315.

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CREATING ATTRACTIVE, effective printed materials, i.e., résumés, brochures, manuals, newsletters, transcriptions, etc. Sandi, 437-7058.

HOUSESITTING - April, May, June 1996; married couple available, references, will pay some rent, love pets, plants. 433-3310.

PROFESSIONAL TAILOR with 26 years' experience, specializing in alterations and repairs for men and women. 11206 76 Avenue. 435-9073.

EXPERIENCED HOUSEKEEPER - 12 years, with excellent references, has two openings. For more information, Kathy, 483-0659.

HOLIDAY CHILDCARE - 2-5 January 1996. Activities and snacks included, \$20/day. Garneau After School Centre, 10925 87 Avenue, Christina or Rhonda, 432-0345.

### GOODS FOR SALE

CASH PAID for quality books. The Edmonton Book Store, 433-1781.

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## Catherine M. Fletcher D.D.S.

### DENTIST

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Development Office  
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